# 🎤 Real-Time Speech Translator with Visualizer

This project is a **real-time speech translation** tool that converts spoken words into text, translates them into a selected language, and provides **text-to-speech output**. It features:  
✅ **Multi-Language Translation** – Supports English, Urdu, and Hindi  
✅ **Text-to-Speech Output** – Speaks out the translated text  
✅ **Dynamic Audio Visualizer** – Displays a waveform animation while recording

Built using **Python, Google Translate API, gTTS, Matplotlib, and SpeechRecognition**, this tool is ideal for real-time language translation and accessibility.

* **Usage:**

1. Select the source and target language
2. Click the **Record Audio** button and speak
3. The system will transcribe, translate, and speak the output

* **Installation:**

!pip install speechrecognition googletrans==4.0.0-rc1 gtts matplotlib pydub

Feel free to contribute and improve this project!